

Ohio Department of Transportation

Materials Application Guidelines

Conditions		Equipment	Pre-Treat	Light Snowfall*			Heavy Snowfall** w/Plowing			Freezing Rain			
Pavement Temperature Range, and Trend	Pavement surface at time of operation	Recommended Maintenance Action	Recommended Snow Removal Equipment	*** 23 % Solution of Salt Brine 23% (gal/mile)	Solid (#/mile)	*** ## Prewet solid (#/mile)	Comment #	Solid (#/mile)	*** ## Prewet solid (#/mile)	Comment #	Solid (#/mile)	*** ## Prewet solid (#/mile)	Comment #
Above 32°F Steady or rising	Dry, wet, slush, or light snow cover	Monitor Road and Weather Conditions	Front Plow Wing Plow Underbody Plow	20 - 40			1			1			
							2			2			
Above 32°F Below is imminent	Dry	Apply liquid or prewetted solid	Anti-Icing System or Salt Spreader and Pre-wetting Tanks	20 - 40		50 to 100			50 to 100	3			
	Wet, slush, or light snow cover	Apply liquid or prewetted solid	Anti-Icing System or Salt Spreader		50 to 100	50 to 100		200 to 300	100 to 200	3	300 to 400	200 to 300	
25°F to 32°F Remaining in range	Dry	Apply liquid or prewetted solid	Anti-Icing System or Salt Spreader and Pre-wetting Tanks	20 - 40		50 to 100			100 to 200	3			
	Wet, slush, or light snow cover	Apply liquid or prewetted solid	Anti-Icing System or Salt Spreader		100 to 200	50 to 100	5	300 to 400	300 to 400	3, 5	300 to 400	300 to 400	5
20°F to 25°F Remaining in range	Dry	Apply liquid or prewetted solid	Anti-Icing System or Salt Spreader and Pre-wetting Tanks	20 - 40		100 to 200							
	Wet, slush, or light snow cover	Apply liquid or prewetted solid	Anti-Icing System or Salt Spreader		200 to 300	100 to 200	5, 6	Max 400	Max 400	5, 6	Max 400	Max 400	5, 6
15°F to 20°F Remaining in range	Dry	Monitor Conditions					4			4			4
	Wet, slush, or light snow cover	Apply solid materials	Salt Spreader		300 to 400	300 to 400	5, 6	Max 400	Max 400	5, 6	Max 400	Max 400	5, 6
Below 15°F Steady or falling	Dry	Monitor Conditions					4			4			4
	Wet, slush, or light snow cover	Plow as needed Apply salt with calcium chloride	Front Plow Wing Plow Underbody Plow			200 to 300	5		Max 400	5	Max 400	Max 400	5

* less than 2 inch per hour ** 2 inch or more per hour
8 to 10 GALLONS of salt brine per TON is recommended for Pre-wet solid

- 1) Monitor temperatures and road pavement conditions for cold or icy spots. Treat problem areas as needed.
- 2) Treat icy spots at 100#/mile or 20 gal/mile, plow as needed.
- 3) Do not apply liquid to heavy snow accumulation or packed snow.
- 4) Do not apply chemicals and maintain dry pavement during windy conditions
- 5) A mixture of salt and abrasives is recommended or acceptable at these temperatures.
- 6) Calcium Chloride may be used in temperatures less than 25 degrees F

*** SEE ATTACHED FOR OTHER LIQUID ANTI/DE-ICER APPLICATION RATES